

INTERNATIONAL SEARCH REPORT

International Application No

PCT/BR 03/00090

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F04B35/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 909 895 A (MATSUSHITA REFRIGERATION) 21 April 1999 (1999-04-21) column 3, line 8 -column 4, line 25 figures 1,2 ---	1-3,6,7, 12
A	EP 0 994 253 A (MATSUSHITA ELECTRIC IND CO LTD) 19 April 2000 (2000-04-19) page 1, paragraph 16 -page 2, paragraph 33 figures 4,5 ---	1-3,7,12
A	US 2001/043870 A1 (SONG GYE YOUNG) 22 November 2001 (2001-11-22) column 5, line 31 -column 7, line 11 figures 1,5 ---	1-3,7,12

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

Date of mailing of the international search report

23 September 2003

06/10/2003

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 13, 5 February 2001 (2001-02-05) -& JP 2000 291545 A (MATSUSHITA REFRIG CO LTD), 17 October 2000 (2000-10-17) abstract figure 1 -----	1,7,12

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International Application No PCT/BR 03/00090

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0909895	A	21-04-1999		JP 11117860 A JP 11311178 A CN 1214414 A ,B DE 69810233 D1 DE 69810233 T2 EP 0909895 A2 ES 2189098 T3 TW 419567 B US 6056519 A	27-04-1999 09-11-1999 21-04-1999 30-01-2003 30-04-2003 21-04-1999 01-07-2003 21-01-2001 02-05-2000
EP 0994253	A	19-04-2000		JP 2000120535 A JP 2000161211 A EP 0994253 A2 KR 2000029037 A US 6273688 B1	25-04-2000 13-06-2000 19-04-2000 25-05-2000 14-08-2001
US 2001043870	A1	22-11-2001		KR 2001005812 A BR 0100082 A CN 1324986 A DE 10100394 A1 JP 2001329953 A	29-11-2001 26-12-2001 05-12-2001 22-11-2001 30-11-2001
JP 2000291545	A	17-10-2000	NONE		